

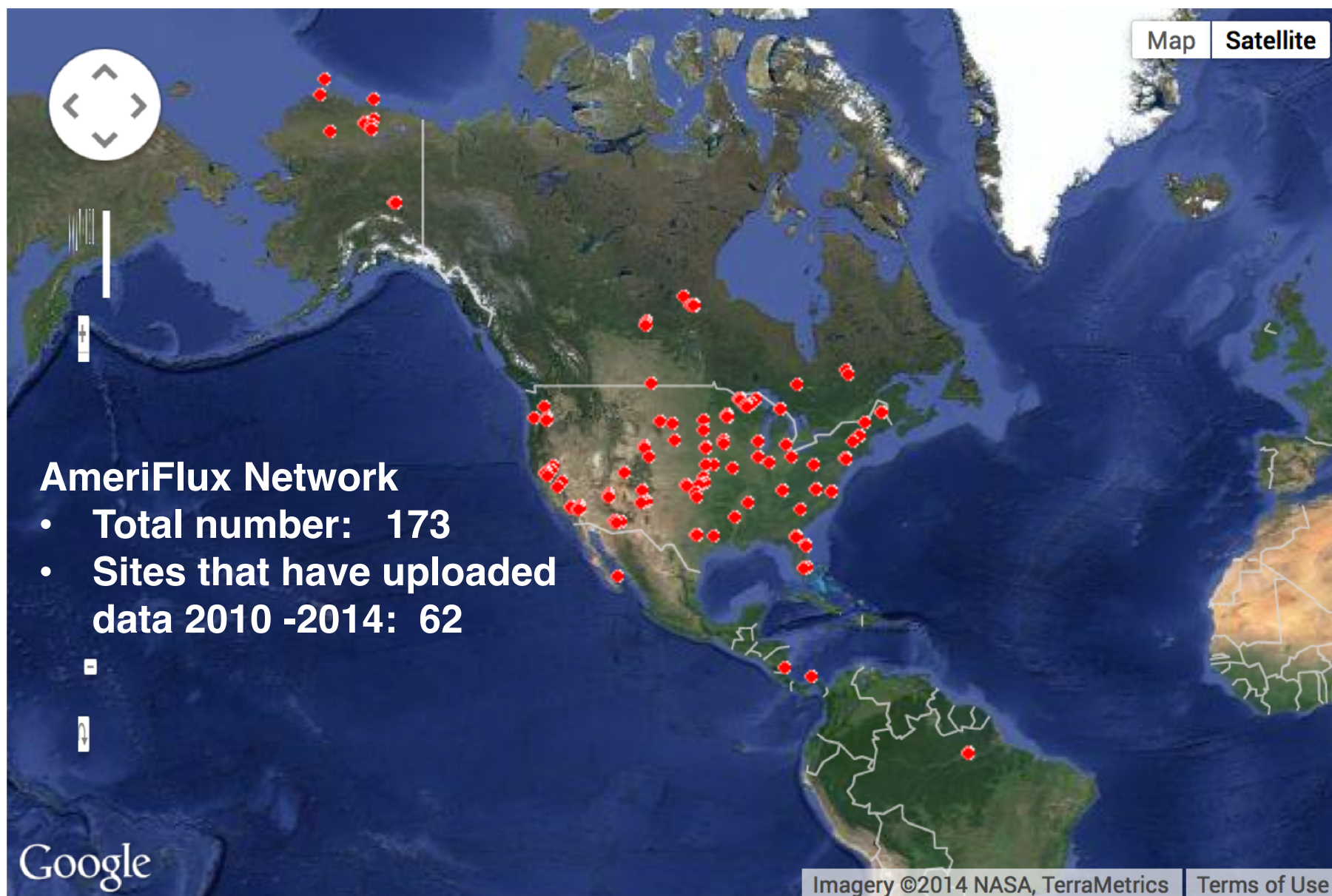


The AmeriFlux Management Project

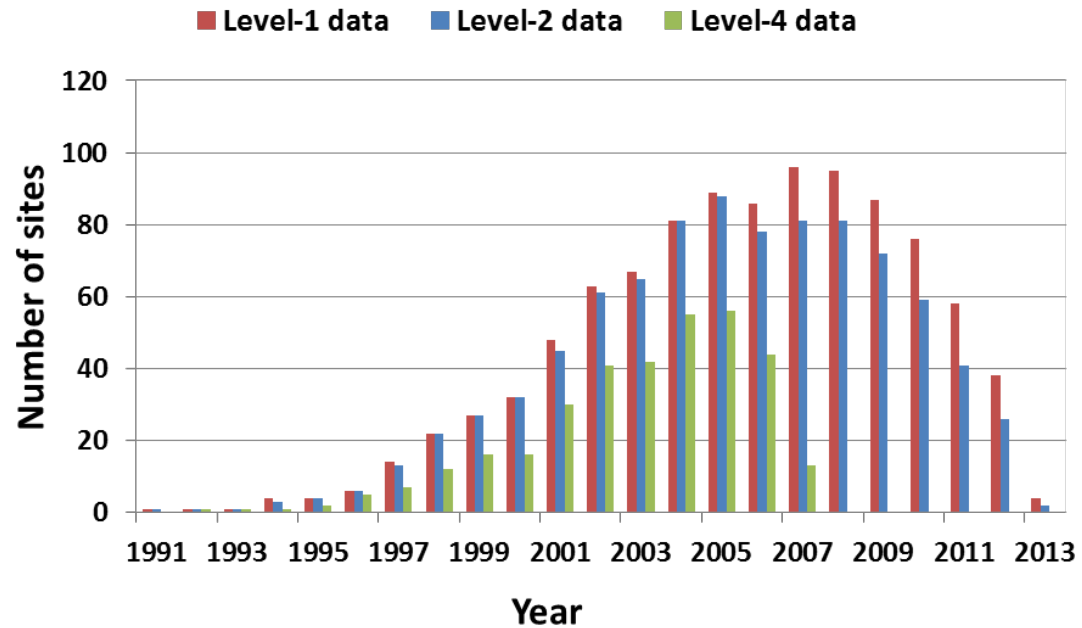
Welcome to Data Workshop

February 12, 2014
Berkeley, California



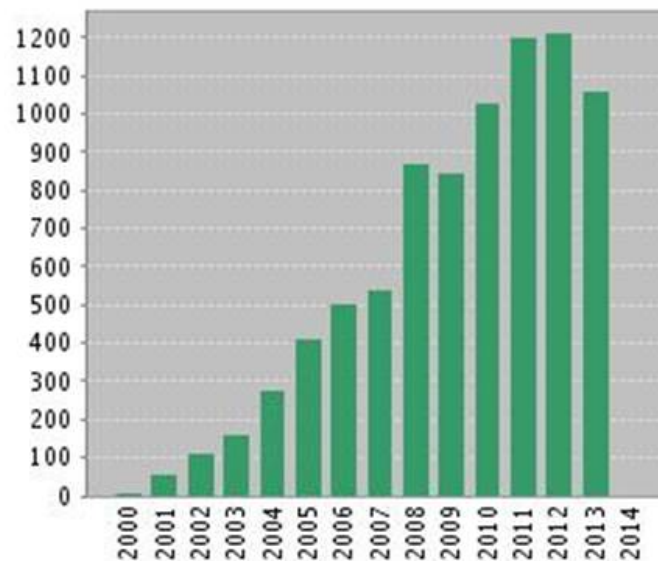


AmeriFlux Data Submission

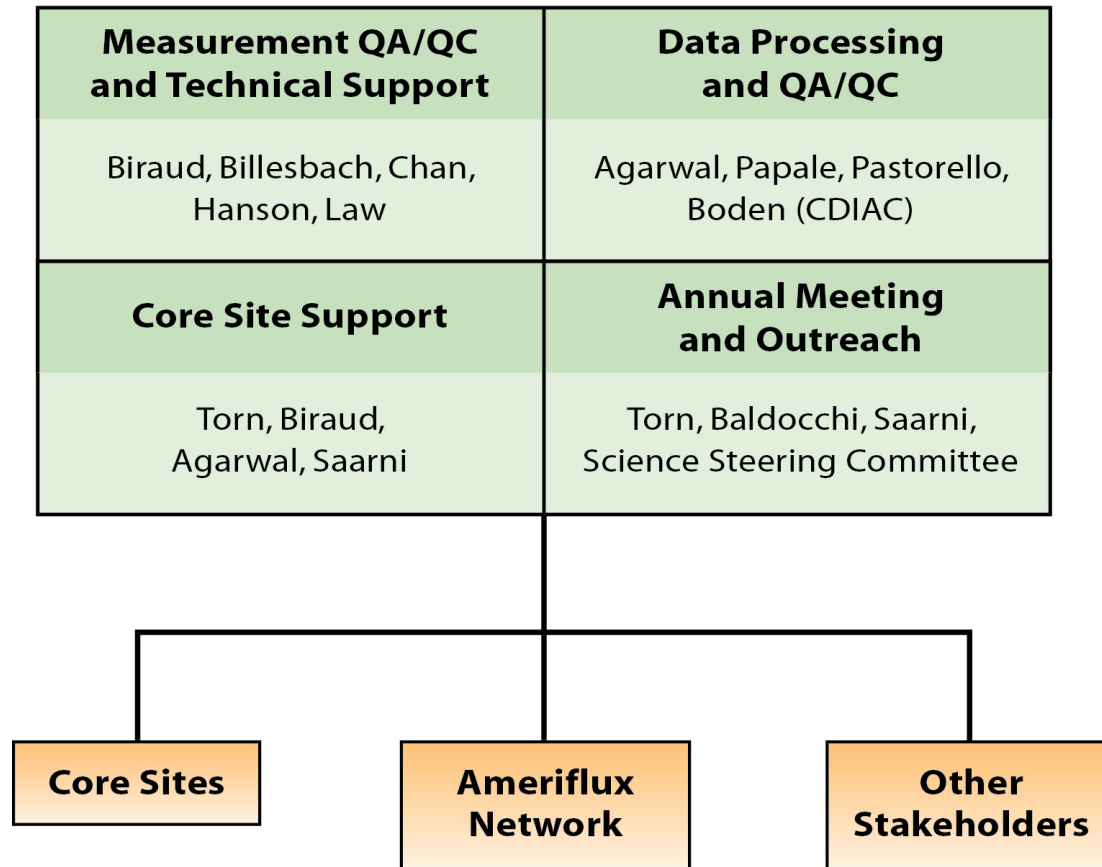


AmeriFlux Data Use

Citations “AmeriFlux”



AmeriFlux Management Project

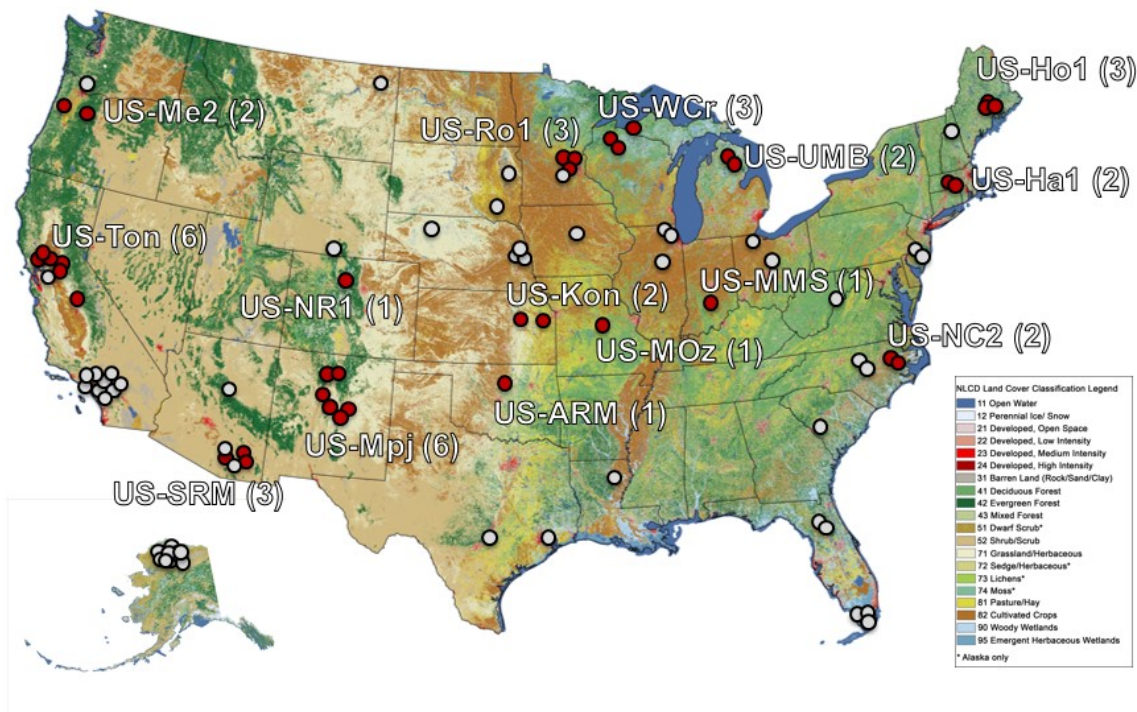


ESD14-004

AmeriFlux Network – Map of US sites

13 core clusters with 41 tower sites

- AmeriFlux Core sites
- AmeriFlux sites



Name of Cluster	Number of Sites
ChEAS	4
Harvard Forest	2
Howland Forest	3
Morgan Monroe State Forest	1
New Mexico Elevation Gradient	6
Niwot Ridge	1
N. Carolina Loblolly-Alligator River	3
Tonzi/Vaira/Delta	5
UMBS	3
Walnut Gulch/Santa Rita	5
Konza Prairie	3
Metolius	2
Rosemount*	3

QA/QC Tech Team



From left to right:
- S. Biraud (LBNL)
- D. Billesbach (UNL)
- S. Chan (LBNL)
- C. Hanson (OSU)

GOAL: maintain high-quality, comparability, and continuity of observations, and support innovation.

Provide technical support and QA/QC resources to participating sites:

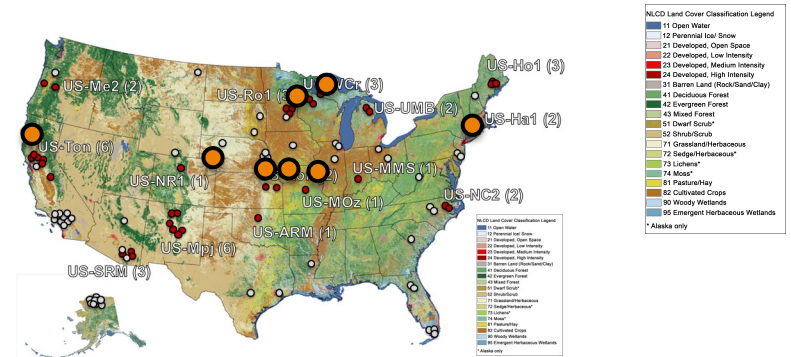
- Gold file comparison
- Ensure inter-comparability by PECs to sites for comparisons
- Provide PAR & CO₂ standards to all sites
- Loaner program to Core Site network
- Technical support as requested

Addition to existing QA/QC Tech capabilities:

- FY14: CH₄ intercomparison and calibration standards
- FY15: Sub-canopy storage intercomparison
- Foster innovation

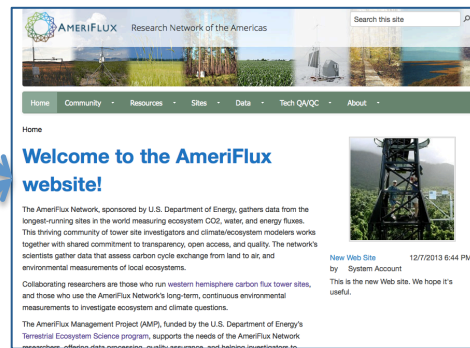
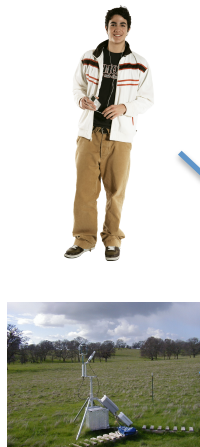
QA/QC Tech: Recent activities

- Benchmarked OSU and LBNL PECs
- Flux intercomparison at eight sites
- Provided 12 sites with calibrated PAR sensors
- Provided six sites with CO₂ standards
- Loaned equipment to 5 Core Site clusters

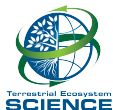
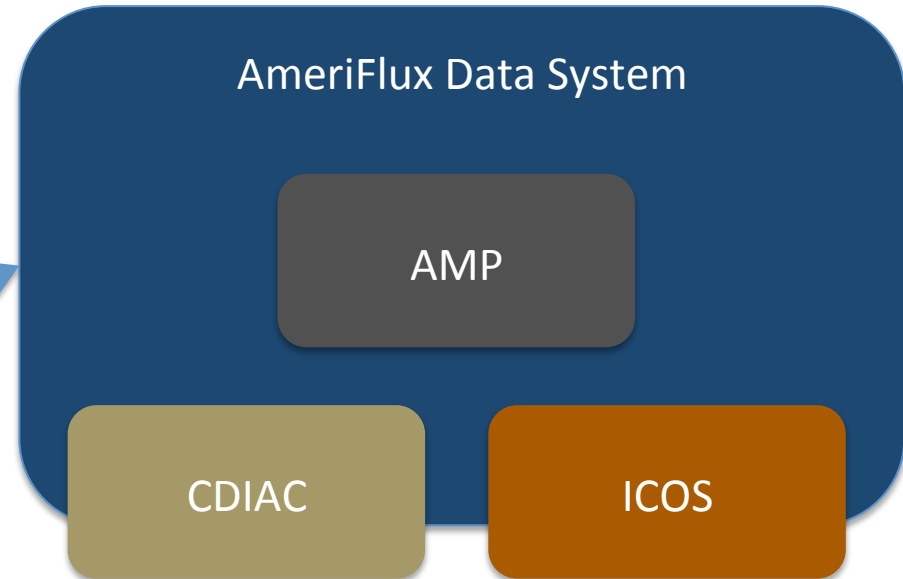


Site visited	PI	Dates of Visit
Sherman Island, CA	D. Baldocchi	April 5-18, 2013
Kansas Field Station, KS	N. Brunsell	May 1-13, 2013
Konza Prairie, KS	N. Brunsell	May 3-14, 2013
Willow Creek, WI	A. Desai	June 18-25, 2013
Rosemount, MN	T. Griffis	June 27 - July 5, 2013
Niwot Ridge	P. Blanken	July 26 - August 4, 2013
Ozarks, MI	L. Gu	August 28 – September 9, 2013
Sillas Little, NJ	K. Clark	September 17-28, 2013

AmeriFlux Data System



Ameriflux.lbl.gov





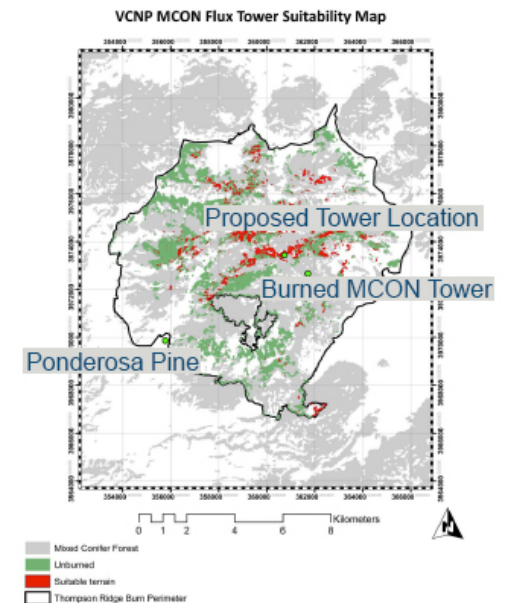
What's New in the Network

- 14 new and returning sites joined the AmeriFlux network, including seven from Canada and one from Mexico.
- Creation of 13 Core Site-Clusters (41 towers total) for long term records, representing more than 40% of all active AmeriFlux sites.
- New, *Rapid Response Flux System* available to AmeriFlux sites for special research opportunities (thanks to DOE program managers!). Managed by the AmeriFlux Management Project (AMP).
- AMP is running updated “Level 4” code: consistent, gap-filled, GPP/ Reco-partitioned data streams will be available for synthesis studies
- Tech QA/QC visited eight AmeriFlux sites and has new gas standard and temperature calibration facilities.



AmeriFlux Rapid Response Flux System

- Full eddy covariance (CO_2) and micromet system
- Loan up to three years.
- Take advantage of special opportunities
- First deployment: unburned site in Valles Caldera to pair with burned site.



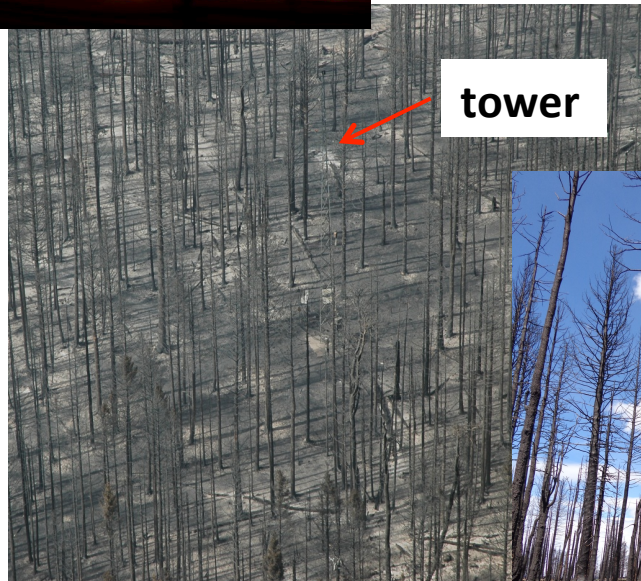


Valles Caldera *Mixed Conifer* forest (US-Vcm) AmeriFlux site: hit by a stand-replacing fire in June 2013



AMP provided replacement instruments and sensors.
The newly instrumented tower was functional as of October 2013

Thompson Ridge Fire
burned 24,000 acres
in the Valles Caldera
National Preserve



Upcoming Events

1. AmeriFlux Annual PI/Community Meeting,
May 4-5, 2014 (Sunday night – Monday night)
Bolger Center, Potomac MD (DC area)
 - Meeting Chairs: Peter Curtis, Dave Hollinger
 - The DOE Terrestrial Ecosystem Science Program (TES) PI meeting is May 6-7 in same location.

2. 7th Annual Summer Course in Flux Modeling and
Advanced Measurements. Niwot Ridge, CO.
<http://www.fluxcourse.org/course.html>

AmeriFlux Management Project Team

Project Leads

Margaret Torn, LBNL
Dennis Baldocchi, UCB



Technical QA/QC

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Co-Investigators

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Norm Beekwilder, U Virginia



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